FIREMON
TREE DATA (TD) FIELD DESCRIPTIONS

Field 1: **Macroplot Size**. Macroplot size. (ac/ha).

Field 2: **Microplot Size**. The size of the microplot where trees less the 4.5 feet tall are sampled. (ac/ha).

Field 3: **Snag plot size**. The size of the plot where dead trees greater than breakpoint diameter are measured. (ac/ha).

Field 4: **Breakpoint Diameter**. DBH above which trees are measured individually and below which trees are tallied by diameter-species-status classes. (in./cm).

Table 1: Mature Trees. Trees greater than breakpoint diameter at breast height

Field 5: **Tag Number.** Tag number attached to mature trees. The tagged numbers need not be in sequence.

Field 6: **Species Code.** Either the NRCS plants species code or the local code for that species. Precision: No error.

Field 7: **Tree Status.** Tree status code that best describes the current health of the tree. Precision: ±1 class.

    H – **Healthy** tree with very little biotic or abiotic damage.
    U – **Unhealthy** tree with some biotic or abiotic damage, and this damage will reduce growth. However, it appears the tree will fully recover from this damage.
    S – **Sick** tree with extensive biotic or abiotic damage and this damage will ultimately cause death within the next 5-10 years.
    D – **Dead** tree or snag with no living tissue visible.

Field 8: **DBH**. The diameter of the tree at breast height. (in./cm). Precision: ±0.1 in./0.25 cm.

Field 9: **Tree Height**. The vertical height of the tree. (ft/m). Precision: ±1 ft/0.3 m.

Field 10: **Live Crown Ratio.** The percent class that best describes the percent of the tree stem that is supporting live crown based on the distance from the ground to the top of the live foliage. Valid classes are in table TD-5 of the TD sampling method. Precision: ±1 class.

Field 11: **Crown Fuel Base Height.** Height above the ground of the lowest live and/or dead fuels that have the ability to move fire higher in the tree. (ft/m). Precision: ±1 ft/0.3 m.

Field 12: **Crown Class.** Code that describes the tree crown's position in forest canopy. Precision: +1 class.

  O – Open grown, or the tree is not near any other tree
  E – Emergent, or the crown is totally above the canopy of the stand
  D – Dominant, or the crown receives light from at least 3-4 directions
  C – Codominant, or the crown receives light from at least 1-2 directions
  I – Intermediate, or the crown only receives light from the top
  S – Suppressed, or the crown is entirely shaded and underneath the stand canopy

Field 13: **Tree Age.** Tree age taken from sample core. Precision: +10 percent of total years.

Field 14: **Growth Rate.** The distance measured across the ten most recent growth rings. (in./mm). Precision: +0.01 in./0.1 mm.

Field 15: **Decay Class**. Decay measure of snags. Valid classes are in table TD-7 of the sampling method. Precision: +1 class.

Field 16: **Mortality Code**. Damage that initiated the tree mortality. (i.e. the first damage to the tree causing its reduced vigor). Valid codes are in table TD-8 of the sampling method. Precision: best guess.

Field 17 to Field 20: **Damage and Severity Codes**. Enter the codes that describe evidence of a damaging agent on the tree and the severity of the damage in order of prevalence on the tree. See the Damage and Severity Code Appendix. Precision: Correct damage category, +1 severity class.

Field 21: **Bole Char Height**. Enter the height of the highest contiguous char on measured on the downhill side of the tree. Precision: +0.1 ft/0.3 m.

Field 22: **Percent Crown Scorched**. Enter the percent of crown that has been killed by fire. Include both scorched and consumed foliage. Valid codes are in table TD-5 of the sampling method. Precision: +1 class.

Field 23: **Local Variable**. User defined value or code.

Table 2: Saplings -Trees less than breakpoint diameter and taller than 4.5 feet.

Field 24: **Diameter Class**. Class of the trees being sampled. The Analysis Tools program assumes that the diameter class value in this field represents the midpoint of the DBH range of the trees being sampled. Precision: No error

Field 25: **Species Code**. Code of sampled entity. Either the NRCS plants species code or the local code for that species. Precision: No error

Field 26: **Status Code**. Tree status code that best describes the current health of the tree. Codes presented above in the Field 7 description. Precision: +1 class

Field 27: **Count**. The number of trees tallied for the appropriate diameter-species-status class. Precision: $\pm$10 percent of total count.

Field 28: **Average Height**. The average height of all trees tallied for this diameter-species-status class. Precision: $\pm$1 ft/0.3 m.

Field 29: **Average Live Crown Ratio**. Enter the average live crown percent of the trees tallied for this diameter-species-status class. Valid classes are in table TD-5 of the TD sampling method. Precision: $\pm$1 class.

Field 30: **Local Code**. User defined value or code.

Table 3: Seedlings - Trees less than 4.5 feet tall.

Field 31: **Height Class**. Class of the trees being sampled. The Analysis Tools program assumes that the height class value in this field represents the midpoint of the height range of the trees being sampled. Precision: No error

Field 32: **Species Code.** Code of sampled entity. Either the NRCS plants species code or the local code for that species. Precision: No error

Field 33: **Count.** The number of trees tallied for the appropriate height-species-status class. Precision: $\pm$10 percent of total count.

Field 34: **Local Code**. User defined value or code.